

CANADIAN Contract Record

*A Weekly Journal of Public Works, Tenders,
Advance Information and Municipal Progress*

This Paper Reaches Every Week the Town and City Clerks, Town and City Engineers, County Clerks and County Engineers, Purchasers of Municipal Debentures and Leading Contractors in All Lines Throughout Canada

VOL. 15.

TORONTO, MONTREAL, WINNIPEG, JANUARY 25, 1905

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TENDERS

will be received by the undersigned up to SATURDAY, FEBRUARY 4th, 1905, for the repair of the Waddell Creek drain in the Township of Sarnia, a distance of about 1,456 rods. Plans and specifications can be seen at the Clerk's office.
The lowest or any tender not necessarily accepted.

MAGGIE LOWRIE, Township Clerk,
Box 245, Sarnia.

Tenders for Debentures

Sealed tenders will be received by the undersigned up to noon of Friday, the 10th day of February, 1905, for the purchase of \$10,000.00 Local Improvement Debentures (cement walks) of the Town of Oshawa, bearing interest at 4½ per cent. per annum, and repayable in 20 equal annual installments of principal and interest. Accrued interest to be paid by the purchaser. The highest or any tender not necessarily accepted.

THOS. MORRIS,
Town Clerk.
Oshawa, January 23rd, 1905.

TENDERS FOR DREDGING AND FOUR BRIDGES

Sealed tenders will be received by the undersigned until 2 O'CLOCK P.M. on THURSDAY, FEBRUARY 23RD, 1905, for dredging about 3½ miles in the Rivard Drain, in the Township of Dover, County of Kent. Also for building two steel and two wooden bridges over said drain. Plans and specifications can be seen at the office of A. McDonnell, civil engineer, in the city of Chatham.

The lowest or any tender not necessarily accepted.
Tenders to be marked "Tenders for Dredging, and for Bridges" respectively.

H. N. BUCHARD,
Commissioner,
Dover South P.O.

Debentures for Sale

Offers will be received at the Clerk's Office, Seaford, up till noon, FEBRUARY 6th, NEXT for \$200 Local Improvement Debentures, payable in 15 years. Interest at 4½ per cent. payable yearly. The highest or any offer not necessarily accepted. The debentures are \$200 each.

WM. ELLIOTT, Clerk.

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Wanted by an institution engaged in numerous building operations, young architect or architect's senior student and draughtsman—one possessed of some practical knowledge and with an aptitude for detail. He will be required to scrutinize plans and specifications furnished by architects; keep in communication with the clerk of the different works; see that detailed working drawings are promptly placed in the hands of the various contractors; and generally to exercise a systematic supervision of the operations. Permanent position. The salary will be in keeping with the experience and capability of the appointee. Box 66, CONTRACT RECORD, Toronto, Ont.

DEBENTURES FOR SALE

Sealed tenders will be received by the undersigned up to 12 o'clock noon on the 2ND DAY OF FEBRUARY, A. D. 1905, for the purchase of Debentures of the Town of Simcoe, known as the Consolidated Debentures, for \$10,000 bearing interest at 4½ per cent., i. e., payable in equal annual installments of principal and interest extending over a period of 30 years from 1st January, A. D. 1905, and for the purchase of Local Improvement Debentures of said Town of Simcoe to the amount of \$1,000 bearing interest at 4½ per cent., repayable in annual installments of principal and interest extending over a period of 20 years from the 28th day of December, 1904.

The purchaser to pay accrued interest.
The highest or any tender not necessarily accepted.

FRANK REID,
Town Treasurer.
Simcoe, 12th January, 1905.

The annual meeting of the shareholders of the Colonial Portland Cement Co. will be held at Warton, Ont., on Tuesday, January 31st.

Martin & Senglaup, plumbers, Niagara Falls, Ont., have dissolved, and A. W. Martin has formed a partnership with John Edwards, under the firm name of Martin & Edwards.

CONTRACTS OPEN.

CLARESHOLM, N.W.T.—A mill and elevator are to be built here.

BURFORD, ONT.—A movement is on foot to build a High School here.

DALHOUSIE, N. B.—A company has been formed here to build a wood-working factory.

SWAN LAKE, MAN.—Mr. Hodgson, of Headingly, has decided to build a grist mill here.

ST. ANDREWS, N. B.—A proposition is under consideration to establish an electric light plant here.

MIDLAND, ONT.—It is proposed to raise \$10,000 for street improvement, including cement walks.

SYDNEY, N. S.—The Warden of the County has called attention to the necessity of building an asylum.

MILTON, ONT.—It is probable that the county of Halton will take steps shortly to build a House of Refuge.

QUEBEC, QUE.—J. Samson has commenced the erection of a building on St. Valier street, to cost \$3,500.

NEW HAMBURG, ONT.—The New Hamburg Manufacturing Co. contemplate increasing the capacity of their works.

REGINA, N.W.T.—The Western Manufacturing Co. have just taken tenders on the erection of a factory on Dewdney street.

BALDUR, MAN.—It is expected that a new school to cost \$9,000 will be built this year. A new English church may also be erected.

BURNSIDE, MAN.—Tenders will be received by R. J. Fawcett up to February 20th for the erection of a brick school with stone basement.

PETERBORO, ONT.—W. H. Meldrum, Wesley Collier and others propose to establish a factory for the manufacture of breakfast foods.

ARCOLA, N.W.T.—The ratepayers have petitioned the Council to take into consideration the question of providing an adequate water supply.

QU'APPELLE, N.W.T.—The ratepayers of Qu'Appelle School District No. 2 are taking steps towards the erection of a new school house.

BURK'S FALLS, ONT.—The Lieutenant-Governor will be asked to sanction the raising of \$7,000 by debentures for the completion of the water-works system.

CAMPBELLTON, N. B.—The Government have granted the Interprovincial Navigation Co. fifty feet adjoining the railway wharf for the purpose of building a new wharf.

PRINCE ALBERT, N.W.T.—The members of St. Albans' parish have decided to take steps at once to build a new church. Particulars from Bishop Newham.

ATWOOD, ONT.—The new grist mill to be built by W. F. Forrest will be 40 feet square and of concrete. The total cost of building and plant is estimated at \$11,000.

SEAFORTH, ONT.—Tuckersmith Township Council have decided to build a steel bridge of 90 feet span, with concrete abutments, to replace the Campbell bridge.

AUSTIN, MAN.—M. Thomas will receive tenders up to 31st inst. for the erection of a school room, with basement. Plans by Nicholson Lailey, architect, of Brandon.

MINNEDOSA, MAN.—Tenders will be received by E. B. Fisher, Village Clerk, up to noon of 28th inst., for rebuilding and extending the Main street iron bridge. Plans at the office of the Clerk.

INDIAN HEAD, N.W.T.—John Galt, C. E. & M. E., of Toronto, has been engaged by the Town Council to prepare plans and estimates for a waterworks system for this place.

WILLIAMSTOWN, N. B.—Tenders are invited up to February 25th for the completion of the interior of the Catholic church here. Plans at the residence of John Callahan, Farmerston.

NORTH TORONTO, ONT.—W. McNairn, of Toronto, has purchased four acres of land on Yonge street, adjacent to the Dack residence, where he intends to build a fine suburban home.

MARSHVILLE, ONT.—The Reeve of Wainfleet Council has been instructed to procure plans for an iron bridge with concrete abutments, to be built over Big Forks creek on Chippewa Creek Road.

CARBERRY, MAN.—T. D. Stickle is asking for tenders up to February 15th for the erection of a three-storey brick block, 75x80 feet, on Main street. Plans by John Woodman, architect, Winnipeg.

SPRINGHILL, N. S.—R. B. Murray will receive tenders up to February 20th for the erection of a new wing to the Springhill Cottage Hospital. Plans by Harris & Horton, architects, Halifax, N. S.

BRANTFORD, ONT.—The Canada-Middlesex Railway Co. is applying to the Dominion Government for a charter to build an electric railroad connecting St. Catharines, Brantford, Woodstock and London.

GALT, ONT.—The Galt Building Constructing & Real Estate Co. is seeking incorporation, with a capital of \$40,000, for the purpose of building houses in this city. F. E. Brown is solicitor for the company.

ST. JOHN, N. B.—The Canada Permanent & Western Canada Mortgage Corporation have purchased the Marshall building, corner Market square and Prince William street, and will, it is understood, make extensive improvements.

CHATHAM, ONT.—James L. Wilson & Son, architects, have just taken tenders on the remodeling of the old brick block on south side of King street, lately occupied by Mrs. J. B. Kelly as a millinery store. The proprietor is William Baby.

FORT WILLIAM, ONT.—It is understood that a Winnipeg syndicate contemplate the erection of a \$100,000 hotel here, work to be commenced in the spring. The name of E. J. Rochon has been mentioned in connection with the project.

OWEN SOUND, ONT.—Representatives of the Carney Lumber Co. who were in town last week stated that they

expect to commence the erection of their saw mill about the middle of March. —John Ramsay purposes building a two-storey brick store on Bay street.

FORT FRANCES, ONT.—The plans of Backus & Co. for building a dam and developing a water power on the Rainy River at this place have been approved by the Commissioner of Public Works, and it is stated that the contracts for the work will be let at once.

RED DEER, N.W.T.—Tenders are invited by the Department of Public Works, Ottawa, up to Friday, February 3, for the installation of a hot water heating system at the Court House here. Plans on application to Hugh Clarke, Clerk of Works.

VICTORIA, B. C.—J. C. M. Keith, architect, has prepared plans for a bungalow to be built by Alfred Wood on corner of Washington ave. and Gorge road, to be of stone, cost \$10,000.—It is believed that during the present year the question of providing an adequate water supply will be settled by the City Council.

BERLIN, ONT.—I. Wey, architect, is preparing plans for three brick residences for John Boegel, of St. Clements, to be erected opposite the Berlin-Waterloo Hospital, a brick residence for Joseph Brick, Weber st., and another for Conrad Euler, Waterloo street. Mr. Wey expects an active building season this year.

AROOSTOOK FALLS, N. B.—The Maine & New Brunswick Electric Power Co. will, in the early spring, commence developing their property at this place. It is estimated that 4000 horse power can be developed and it is intended to furnish light and power to a number of towns on either side of the boundary.

NIAGARA FALLS, ONT.—A company has been formed here for the canning of vegetables and fruit and the manufacture of native wines. It is proposed to erect a factory 150x150 feet and wine vaults 50x250 feet, of Queenston cement. Isaac Usher is president of the company and A. S. Murray secretary.

WINDSOR, ONT.—It is learned that plans are under way looking to the construction of an electric railway between Windsor and Chatham. The names of H. H. Welsh, a capitalist of Chicago, and William L. Wilson, secretary of the Home Protectors' Loan Co., Port Huron, Mich., have been mentioned in connection with the project.

EDMONTON, N.W.T.—The City Engineer's tender for the construction of waterworks and sewer extensions was \$41,585, instead of \$31,585 as given in the CONTRACT RECORD of January 11th. It has been decided to make slight changes in the plans and call for new tenders. Some of this work is over 40 feet deep.

PORT ARTHUR, ONT.—MacKenzie & Mann have decided to erect an iron smelter at this place, to have a capacity of 150 to 200 tons of iron ore per day.—A. L. Russell, of this place, has been given charge of the preliminary surveying of the Kakabeka Falls and will commence work at once with a view to determining the best location for storage dams.

FREDERICTON, N. B.—John Gibson & Sons have, it is understood, completed arrangements to erect a brick building on Queen street, to replace their present premises, at a cost of \$15,000. Building operations will be commenced in the spring.—W. J. Scott, president of the Scott Lumber Co., has purchased a part of the Ketchum property at Salamanca and intends building a fine residence in the spring.

LONDON, ONT.—The managers of St. Andrew's church have decided upon the erection of a new Sunday school

building. The pastor is Rev. James Ross.—At the annual meeting of St. James' Presbyterian church held last week, the question of providing increased accommodation for both the church and Sunday school was considered.—A. O. Graydon, City Engineer, has reported that the cost of tiling Carling's creek would be \$25,150, made up as follows: 8,460 feet of tile, \$16,920; laying tile, \$4,320; filling in, \$4,000.

VANCOUVER, B. C.—Plans are being prepared for a residence for Frederick Buscombe, to be built on the corner of Barclay and Chilco streets. It will be two stories and built of half-timber work; estimated cost \$20,000.—H. A. Wilson, of Stillwater, Minn., was in the city last week looking over the available sites for the establishment of saw mills. He is understood to represent capitalists who are prepared to invest a considerable sum.—An agreement has been reached between the Canadian Pacific Railway Co. and the British Columbia Electric Railway Co. under which the latter will operate the Lulu Island branch railway between Vancouver and Steveston, on the Fraser river. The road will therefore be electrified.

OTTAWA, ONT.—At the annual meeting of the Stewarton Presbyterian church held last week, the erection of a new church was discussed but no definite action taken. It has been suggested to sell the present site and build a larger stone church, costing about \$25,000, on a site further east on Argyle ave.—The congregation of Erskine Presbyterian church, of which Rev. A. E. Mitchell is pastor, have decided to build a new church to seat about 1,300 people and cost approximately \$20,000.—The City Clerk has just invited tenders for the carpenter work and installation of heating apparatus and brickwork for the Fat Stock Show Building. The architects are Bayly & Huber, 49 Metcalfe street.—Plans of hot water heating system to be installed in the Court House at Red Deer, N.W.T., may be seen at the Department of Public Works, this city. Tenders close Friday, February 3.

STRATFORD, ONT.—Orr & Russell, architects, have prepared plans for additions and improvements to St. Patrick's church at Kinkora, to cost about \$5,000. A new sacristy, 22 x 32 feet, will be built of white brick, and steam heating installed for the entire building. Tenders will be asked for in a few days.—The City Council have decided to construct the following pavements: Asphalt block on Downie street, from George to Albert streets, cost \$13,080.10; vitrified block on Downie street, from George to Shakespeare streets, cost \$17,605; asphalt block on Ontario street, from Church to Waterloo and from Waterloo to Queen streets, cost \$61,972; vitrified brick on Brunswick street, from Downie to Waterloo streets, cost \$6,209; vitrified brick on Waterloo street, from Ontario to Downie streets, cost \$11,654.—At the last meeting of the Market and Relief Committee, the erection of a new market building was discussed.—The by-laws for \$50,000 for waterworks extension, \$7,000 for sewage disposal, and \$3,000 for a morgue, which were carried by the ratepayers on January 2nd, have been finally passed by the Council.

HAMILTON, ONT.—At the annual meeting of St. Andrew's church last week, preliminary steps were taken towards the erection of a new edifice.—A committee has been appointed to report upon a site for a new church to be built by McNab street congregation.—It is understood that the International Harvester Co. propose to greatly extend their buildings this year. There is a great dearth of dwellings in this city and

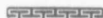
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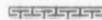


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several syndicates are being formed to start out early in the spring to erect dwellings suitable for workmen.—The Sewers Committee have decided to ask the Government to assist to build sewage disposal works at the west end of the city, through which section the asylum is drained.—The City Engineer has been instructed to prepare plans for a sewer to drain the Annex east of Sherman ave. and north of Barton street, but the work is not likely to be done this year.—J. C. Slater, of Waterdown, has purchased 200 feet of land on St. Matthew's ave., this city, on which he will likely build brick residences.—The architect who is to have charge of the building of the \$50,000 addition to the city hospital has been commissioned to visit other cities for the purpose of obtaining information concerning modern methods of design and construction.

WINNIPEG, MAN.—James Munro, of New Glasgow, N. S., proposes to establish a wire factory in this city.—Joseph Maw has purchased the property immediately in the rear of his warehouse at corner of William ave. and King street, which it is his intention to utilize for manufacturing purposes. Modern machinery for automobile repairs will be installed on the top floor.—President Mackenzie, of the Canadian Northern Railway, states that the building of new terminals in this city will be proceeded with as rapidly as possible in the spring. The completion of the main line to Edmonton will be carried out next summer and it is proposed also to complete the Prince Albert branch and to build a line from Swan River into the Swan River Valley country.—William Whyte, second vice-president of the Canadian Paci-

fic Railway, states that the estimates for this year include appropriations for steel bridges to replace a number of wooden bridges in the mountains.—Plans of three-story brick block to be built at Carberry by T. D. Stickle may be seen at the office of John Woodman, architect, Merchants Bank Block.—John McDonald, formerly of the Bank Hotel, has purchased the Kastner block property on Notre Dame ave. and will spend about \$15,000 on improvements.—At the annual meeting of the Point Douglas Presbyterian congregation the management was instructed to procure plans for a new church. St. Giles congregation are also considering increased accommodation.—The Bell Telephone Co. have purchased six lots on Henry ave., running through to Fonseca street, and intend in the early spring to build a large stores warehouse and repair shops.—The George H. Lee Co., manufacturers of tanks, steam fed cookers, etc., Omaha, Neb., have decided to build a factory and warehouse in this city.—Plans for rebuilding and extending the Main street iron bridge in Minnedosa may be seen at the office of the Provincial Government Engineer in this city.—Darling, Pearson & Over, architects, have prepared plans for a new building of cut stone to be built at Fort William, Ont., for the Canadian Bank of Commerce.

MONTREAL.—The Board of Governors of the Royal Victoria Hospital have decided to rebuild the damaged portion of the hospital at once. An independent water supply may also be installed.—The necessity of erecting a new building was again brought before the governors of the Western Hospital at their meeting last week.—The financial arrangements have

been made and the site secured for the new hotel to be built at Lachine, but Mr. Ross-Ross, secretary of the company, estimates that it will take eight months to complete the building.—The Longueuil Tramway Co. is seeking incorporation to build an electric railway from Montreal to Longueuil and through other parishes of Chambly County.—Plans are being prepared for the addition of two stories to the general offices in this city of the Grand Trunk Railway Co., work on which will be begun early in the coming summer.—The promoters of the Alexandra Hospital have decided to make the new building fireproof, which has necessitated certain changes in the plans.—The plans prepared by Hutchison & Wood, architects, for the Heather curling rink, to be built on the east side of Kensington ave., between Catherine st. and Western ave., show the rink proper to be 76 x 148 feet, roof supported on steel posts and girders, walls of solid brick, and the front faced with pressed brick and sandstone trimmings. Work will be commenced in the spring.—The D. B. Martin Co., of Philadelphia, have purchased the Eastern abattoir at the head of Frontenac street, this city, and announce that it is proposed to spend at least \$150,000 on the property. It is the intention to double the capacity of the abattoir and install new machinery.—Chief Benoit, of the Fire Department, has approved of the proposal to build a fire station somewhere in the vicinity of Pine ave. He estimates the cost of a suitable station, without the necessary equipment, at \$20,000.—Tenders will be invited immediately for a new fire engine, new extension ladder and 5,000 feet of hose.—The following building permits have been granted: Theo

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Corbel, Magdalen street, two-storey brick and wood dwelling, cost \$3,200; Leon. Charbonneau, Richelieu street, three-storey wood and brick dwelling, cost \$3,500; J. E. Tremblay, St. Catherine street, three-storey wood and brick dwelling, cost \$3,000; Roy Usebe, Metana street, five two-storey wood and brick dwellings, cost \$7,500; F. Gaudreau, Dorchester street, repairs to dwelling and store, cost \$2,000; Wm. Dupre, Mount Royal street, repairs to dwelling, and store, cost \$750; Jas. M. Aird, St. Urbain street, repairs to bakery, cost \$2,400; Grier & Yuile, Macgregor street, repairs to house and factory, cost \$1,000.

TORONTO, ONT. — The American Chicle Co. propose to build a \$30,000 chewing gum factory and chicle storehouse between Logan ave. and Carlaw ave., just south of the G. T. R. tracks. — Hedges Bros., 32 Clinton street, want tenders for excavation, stone and brick work for a pair of houses. — At the annual meeting of Chalmers church last week, a committee was appointed to solicit subscriptions and eventually proceed with the erection of a Sunday school building to cost about \$12,000. Rev. H. A. Macpherson is pastor. — A 75-foot lot on McMullan street, part of the estate of the late A. B. Lee, changed hands last week and it is understood that the purchasers will build dwelling houses on the site. — Plans have been prepared for the new Art Gallery for the Industrial Exhibition Association. The building will be 128 x 82 feet and will cost \$27,000 in concrete or \$29,000 in brick. — It is stated that the King Edward Hotel Co. have acquired 7 acres of land at York Mills and purpose building thereon a large factory for the preparation of aerated water on an extensive scale. The plan is understood to include the erection of a number of workingmen's houses. — Thomas Clegg has submitted an offer to the Island Committee for a 21 year lease of the property occupied by his hotel at Hanlan's Point. If given a lease he proposes to build a large hotel. — Charles Bulley proposes to commence next month

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the erection of four residences on Withrow ave., in the east end. — Building permits have been granted as follows: Mark Fisher & Sons, five-storey brick and stone office building, 84 Bay street, cost \$30,000; E. Whaley, two-storey brick residence, Roxborough street east, near Chestnut Park place, cost \$7,750; Canadian Horse Exchange, one-storey brick stable, 60 64 Jarvis street, cost \$3,800; Mavell & Co., two-storey brick and stone factory, east side Dufferin street, near King, cost \$10,000; Jones & Moore Electric Co., three-storey brick and steel factory, 296 Adelaide street west, cost \$2,500; Miss E. Cannon, two-storey brick dwelling, 375 Manning ave., cost \$2,000; James Burford, two-storey brick dwelling, 8 Vermont ave., cost \$2,400; H. G. Paul, two-storey brick residence, south side College street, near Lippincott, cost \$2,500; W. A. Cotton, 2 1/2 storey brick dwelling, corner Dovercourt road and College street, cost \$4,500; John Stark & Co. pair two-storey brick dwellings, east side Dufferin street, near Lindsay ave.

FIRES.

Sash and door factory of Lewis Caron, Nicolet, Que., totally destroyed; heavy loss. — St. Johns Athletic Club House, Oxford street, London, Ont., loss \$3,000. — The Commercial Club, Main street, Winnipeg, damaged to the extent of \$20,000. — Saw mill of R. A. Estey & Co. at Fredericton, N.B., totally destroyed; loss \$12,000.

CONTRACTS AWARDED.

MITCHELL, ONT.—A. Hill & Co. have secured the contract for two steel

bridges to be built in the Township of Grey.

KAMLOOPS, B. C.—R. MacKay has been awarded the contract to enlarge the concentrator building at the Iron Mask mine, at a cost of about \$7,500.

NIAGARA FALLS, ONT.—The contract for brass and iron castings for the Welland canal for 1905 has been awarded to the Niagara Falls Machine & Foundry Co., of this city.

BIDS.

BLLENHEIM, ONT.—Harwich Township Council received the following offers for purchase of debentures: G. A. Stimson, Toronto, \$10,941.60 for face value of \$10,845.30; W. C. Brent, Toronto, \$10,909.

STEWARTVILLE, ONT.—McNab Township Council opened tenders for the construction of a new bridge across the Madawaska river. Prices for wooden structures approximated \$8,000, and for iron structures \$18,000. The contract will be awarded at the next Council meeting.

The Brick Manufacturing and Supply Co., Limited, of Loudon, Ont., has obtained a charter.

SAND

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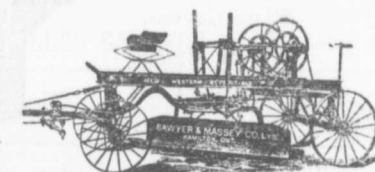
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NEW COMPANIES.

Canada Tin Plate & Sheet Steel Company, Limited, Morrisburg, Ont., incorporated, capital \$1,500,000, to carry on a general foundry and machine shop business and to manufacture iron, steel and other metal work. Directors, N. D. Lewis, of Cardiff, England; J. A. Meldrum, B. D. Cole, of Toronto, and others.

Buffalo and Leamington Oil & Gas Company, Limited, Ont., incorporated, capital \$100,000. Directors, Edwin Wigle, of Leamington; C. L. Meyer, of Township of Pelee, and M. J. Gemmill, of Perth.

Acme Manufacturing Company, Limited, Toronto, incorporated, capital \$40,000, to manufacture implements, plumbers supplies, etc. Directors, J. T. Eastwood, Nicholas Murphy, E. E. Wallace, Frank Hodgson and A. J. Walker.

Stratford Mill Building Company, Limited, Stratford, Ont., incorporated, capital \$200,000, to manufacture mill machinery, boilers, etc. Directors, William Preston, James B. Greig and E. M. Preston.

Brick Manufacturing & Supply Company, Limited, London, Ont., incorporated, capital \$40,000. Directors, William Tytler, R. G. Wilson, and others.

Wilberforce Lumber Company, Limited, Durham, Ont., incorporated, capital \$40,000, to manufacture lumber and other timber products. Directors, George Sparling, A. S. Hunter and David Jamieson, all of Durham.

A Weller & Company, Limited, Toronto, incorporated, capital \$40,000, to acquire the contracting business carried on by the firm of A. Weller & Company. Directors, James Stares, William Weller and James Weller.

Canadian Corundum Wheel Company, Limited, Hamilton, incorporated, capital \$40,000, to manufacture corundum and emery wheels. Directors, Levi Sherk, H. E. Sherk, George F. Webb, William Bell and A. S. Devine.

St. Marys Quarries, Limited, St. Marys, Ont., incorporated, capital \$200,000, to quarry, manufacture and deal in stone, cement, etc. Directors, Alexander Douglas, T. T. Garner, James W. Graham, David Bonis and Alexander Calley.

Canadian Builders, Limited, Toronto, incorporated, capital \$1,000,000. Directors, G. P. Magann, contractor, Toronto; James C. Stewart, contractor, New York; C. F. Franson, engineer, Pittsburg, and others.

Standard Construction Company, Limited, Ottawa, incorporated, capital \$1,000,000. Directors, E. J. Chamberlin, railway contractor; J. W. Smith, railway official; G. E. Fauquier, contractor, of Ottawa, and others.

Municipal Homes & Investment Corporation, Limited, Montreal, incorporated, capital \$125,000, to carry on the business of providing houses and building lots. Directors, Alphonse Piche, architect; James Bennett, electrical contractor, both of Montreal, and others.

Drolét & Forget, plumbers, Montreal, have dissolved.

BUSINESS NOTES.

The Piper Brick & Tile Co. has succeeded Piper & Co., manufacturers of brick, Red Deer, N.W.T.

The Somerset Brick Co., Limited, of Somerset, Man., has been incorporated for the purpose of manufacturing bricks and tiles and other building materials.

The Laprairie Brick Co., Montreal, have elected the following board of directors: President, A. A. Ayer; vice-president, Peter Lyall; managing director, James W. Tester; John For-

man, T. A. Trenholme, John McKergow and Paul Galibert.

George H. Webster, formerly division engineer of the Canadian Pacific Railway Co., has acquired an interest in the British Columbia General Contract Co. and has been elected president in place of C. D. Fowler, who has resigned.

The Builders' Exchange of London, Ont., have elected the following officers for 1905: President, Henry Stratford; first vice-president, George C. Young; second vice-president, James S. Luney; secretary-treasurer, George S. Gould; board of directors, E. Martyn, John Whittaker, L. H. Martyn, A. Nobbs, and John Janex.

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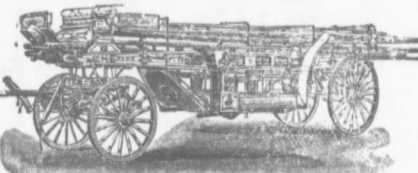
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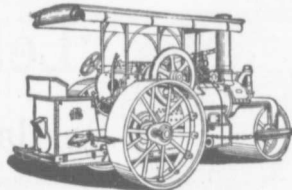


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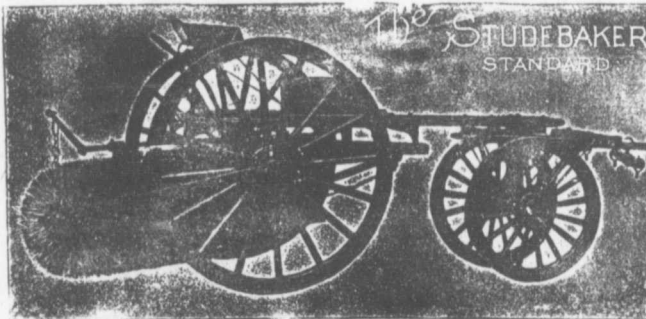
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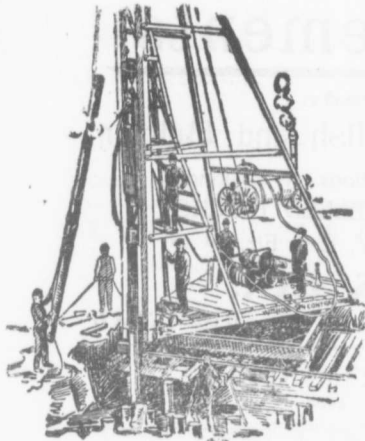
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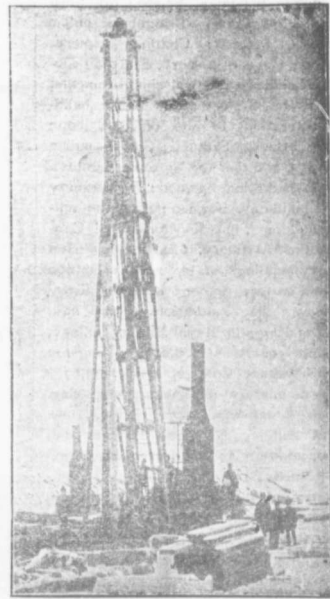
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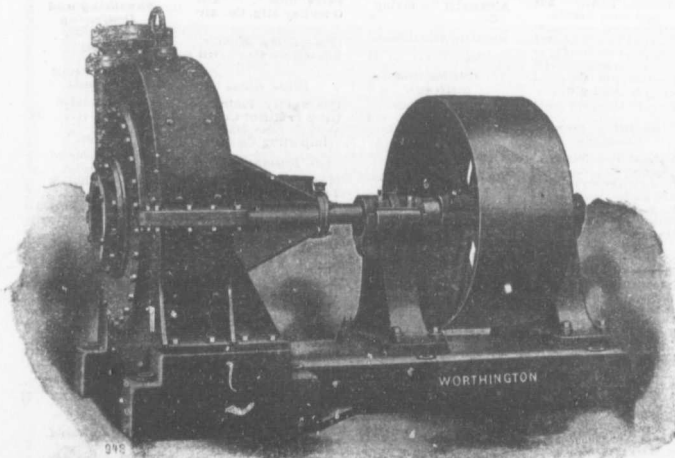
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DOMINION GOVERNMENT ESTIMATES.

The Dominion Government estimates for 1905 were presented to the House last week. The total expenditure authorized is \$58,495,187, a decrease of \$3,300,000 as compared with the previous year. The Ontario votes for public buildings are as follows:—

Belleville armory, \$30,000; Bowmanville public buildings, \$7,200; Brantford drill hall, \$25,000; Bridgeburg public buildings, \$16,000; Chatham armory, \$55,000; Cobourg armory, \$14,500; Dominion buildings, renewals, improvements, repairs, etc., \$12,000; Galt public buildings, alterations to post office, \$3,000; Guelph armory, \$40,000; Guelph public buildings, addition to, \$5,500; Hamilton drill hall, addition, \$50,000; Hawkesbury public buildings, \$13,000; Kingston military buildings, barracks for Royal Canadian Field Artillery, \$20,000; Kingston military buildings, stable accommodation for field battery, \$5,000; Kingston Royal Military College, addition to drill hall, \$6,000; Kingston Royal Military College, servants' quarters, \$8,000; Kingston Royal Military College, stable, \$5,000; London military buildings, magazine, \$3,000; London military buildings, new stores building, \$10,000; London post-office, addition and improvements, \$20,000; North Bay public building, \$15,000; Oshawa public building, \$21,500; Ottawa department building, steel drawers and roller shelves, etc., \$25,000; Ottawa public building, new coal shed, \$10,000; Ottawa Parliament Buildings, improvements in main entrance hall, renewal of skylights, windows, etc., \$10,000; Ottawa public buildings, pavement on Wellington street, opposite buildings, \$35,000; Ottawa post-office, restoration of burned building and addition of new stores, \$80,000; Ottawa Government Printing Bureau, to replace

(Continued on page 12.)

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A TRIUMPH OF THE METALLURGIST'S ART

MANGANESE

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Babbitt Metal.

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ALSEN'S, 45 Broadway, NEW YORK

THE OFFICIAL PRACTICAL
TEST OF CONCRETE VAULT
LIGHT CONSTRUCTION

UNDER THE PERSONAL DIRECTION
OF

WM. BARCLAY PARSONS, C.E., M. Am. Soc. C.E.
CHIEF ENGINEER R. T. COMMISSION

AND

S. L. F. DEYO, C.E., M. Am. Soc. C.E.
CHIEF ENG. R. T. SUBWAY CONSTRUCTION CO.

ALSEN'S HAS BEEN SELECTED IN PREFERENCE
TO ALL OTHER BRANDS, FOR THE SUBWAY
RAPID TRANSIT STA-
TIONS OF THE ENTIRE
SYSTEM, REACHING
FROM THE BATTERY
TO THE BRONX.



MERELY SUSPENDED BETWEEN I-BEAMS
A SLAB OF

ALSEN CONCRETE

2 INCHES THICK }
5 FEET WIDE } 30 DAYS OLD
12 1-2 FEET LONG

SUSTAINED 11,882 POUNDS OF
CONCENTRATED WEIGHT

ON AN IRON DISC 8 1-2 IN. IN DIAMETER

THOUGH HIGHEST IN PRICE, ALSEN'S IS BEING
USED IN THIS VERY IMPORTANT CONSTRUCTION,

NOT ONLY BECAUSE OF ITS
GREATER STRENGTH, BUT
CHIEFLY BECAUSE OF ITS
ABSOLUTE SAFETY
IN ACTUAL WORK.

8 1-2 INCH IRON DISC TO CONCENTRATE WEIGHT

MADE BY TUCKER & VINTON, INC., NEW YORK CITY
PATENTED

the present wooden roof by a fireproof roof and raise the walls for one additional storey on main building and two additional stories on annex, \$30,000; Peterborough armory, \$30,000; St. Catharines drill hall, \$45,000; St. Marys public building, \$15,000; Sandwich public building, \$15,000; Simcoe public building, \$15,000; Stratford armory, \$47,000; Toronto Customs House, alterations and additions, \$15,000; Toronto Dominion buildings, improvements, renewals, repairs, etc., \$8,000; Toronto drill hall, additional accommodation for new corps, \$40,000; Toronto ex-warehouse, addition, \$12,000; Toronto military buildings, magazine, \$3,000; Toronto military buildings, new stores buildings, \$10,000; Toronto military buildings, barracks for permanent corps, \$50,000; Toronto post office, land, building, pneumatic plant and machinery, \$100,000; additional postal station "C," quarters for caretaker, \$1,500; Wingham public building, \$8,000; Woodstock armory, \$45,000; Ottawa public buildings, including repairs, ventilation and lighting, furniture, etc., \$140,000; Rideau Hall, including grounds, renewals, improvements, furniture, and maintenance, \$25,000; post office fittings and supplies, \$5,000; Dominion cattle quarantine stations, improvements, etc., \$6,000.

The votes for rivers and harbors in Ontario are as follows:—Amherstburg Harbor, improvement of channel, etc., including purchase of land, \$5,000; Belle River, dredging and renewing protection work, \$4,000; Bayfield, repairs to north pier and dredging, \$2,500; Beaverton, harbor improvements, \$8,000; Blanche River, improvement of, \$9,500; Bracebridge, wharf, \$3,000; Bronte, harbor improvements, \$8,000; Cobourg, repairs to piers, \$5,000; Collingwood, harbor improvements, \$60,000; Depot Harbor, breakwater, \$20,000; Goderich, harbor improvements, \$70,000; Grand Bend, breakwater, pier, etc., \$15,000; harbors, rivers and bridges, general repairs and improvements, \$20,000; Haileybury (Lake Temiskaming) wharf, \$2,500; Hamilton, harbor improvements, \$30,000; Kincardine harbor, repairs to piers and dredging, \$2,500; Lake Temiskaming, wharves, \$3,000; Little Current, improvement of northern channel, \$50,000; Matchedash Bay, improvement of channel between Fesserton and Waubaushene, \$8,000; Meaford Harbor, improvements, \$66,000; Midland Harbor, improvements, \$7,000; Newcastle, repairs to pier, \$3,300; Oliphant, wharf, \$1,000; Ottawa, wharf at foot of Rideau Canal, \$5,000; Owen Sound Harbor, dredging and protection, \$10,000; Parry Sound, wharf, \$8,000; Petewawa, wharf, \$4,000; Pembroke, wharf, \$20,000; Penetanguishene, dredging and other improvements, \$10,000; Point Edward, dredging, \$17,000; Port Burwell, harbor improvements, \$50,000; Port Bruce, wharf, \$5,000; Port Dover, harbor improvements, \$5,200; Port Hope, repairs to piers and dredging, \$5,000; Port Stanley, harbor improvements, \$70,000; River Otonabee, dredging at Peterboro, \$6,000; Rondeau Harbor, improvements, \$70,000; Sarnia, dredging, \$10,800; Sauguen River, improvements at mouth, \$10,000; Spanish River, dredging, \$10,000; Thessalon, breakwater, \$8,500; Thornbury, dredging, \$6,750; Toronto Harbor, eastern entrance, \$28,000; Toronto Harbor, extension of Island break-

water, \$60,000; Treadwell, wharf, \$3,500; Wiarton, wharf, \$13,000; Wiarton, dredging, \$9,000.

Quebec buildings are voted \$90,000. Sherbrooke gets \$10,000, Three Rivers \$35,000, and St. Hyacinthe \$30,000, for drill halls. Acton Vale, Chicoutimi, Ibergville, Lachute, Levis, Longueuil, Magog, Montmagny, St. Johns, the Mile End, Terrebonne, Thedford Mines and Valleyfield are favored with public building re-votes.

The vote for railways and canals, chargeable to capital, is \$6,402,210, the principal item being \$700,000 for rolling stock for the Intercolonial Railway. The Welland Canal items are: Improvements at Port Colborne entrance, \$250,000; electric lighting and power plant, \$100,000; to remove obstructions and make other improvements, \$75,000; to deepen portions of summit level between Port Colborne and Thorold, \$80,000; to remove centre piers and rebuild bridges at Niagara and Queenston streets and Homer Road crossings, \$150,000; to make survey of canal, \$20,000; elevator at Port Colborne, including foundations, \$310,000; stone protection to banks of new canal, \$10,000; to change valves and hanging gear of new Welland Canal lock gates, \$15,000; to build retaining wall in rock cut, \$60,000.

The Cornwall canal is voted \$7,000; Galops canal, \$135,000; Galops rapids, \$26,500; north channel Galops, \$70,000; Lachine canal, \$106,000; Rideau canal, \$50,000; Sault Ste. Marie canal, \$100,000 and Trent canal, \$307,000.

The following Ottawa items are also charged to capital: Dominion

Archives Building, \$45,000; Royal Mint, \$200,000; Victoria Memorial Museum and other buildings, \$250,000; Western Departmental Block, addition, \$85,000.

Prices of Building Materials.

PRESSED BRICK, Per M.
MILTON PRESSED BRICK AND SEWER PIPE CO.

	F.O.B. Milton, Ont.	F.O.B. Montreal
Red No. 1.....	18 00	18 00
" 2.....	16 00	16 00
" 3.....	20 00	20 00
Buff No. 1.....	18 50	18 50
" 2.....	25 50	25 50
Roman Red.....	30 50	30 50
" Buff.....	33 50	33 50
" Brown.....	40 50	40 50
Hard Building.....	12 00	12 00
" Sewers.....	11 50	11 50
" Backing.....	11 50	11 50

Prices write to head office, Milton, Ont., for catalogue and prices.

DON VALLEY PRESSED BRICK WORKS.

Nos. 1, 2 and 3, Red Pressed Bricks.....	18 00
Nos. 1 and 2 Buff Pressed Brick.....	18 00
No. 1 Brown Pressed Brick.....	18 00
Pompeian Red, Buff and Brown Pressed Bricks	18 00
Ornamental Bricks of all kinds for Mantel purposes.....	18 00
Porous Terra Cotta Fireproofing of all Descriptions.....	18 00
Vitrified Street-Paving Bricks.....	18 00
Semi-Vitrified Foundation Bricks.....	18 00
Common Stock Red and Grey Bricks.....	18 00
Sewer Bricks.....	18 00
Stone or Macadamized Roadways.....	18 00

Prices write to head office, M. Toronto St., Toronto for catalogue and prices.

(Continued on page 14.)



JOHN GALT, C.E. & M.E.
 MEM. CAN. SOC. C.E. AND C.E.A., ETC.
CONSULTING ENGINEER AND EXPERT
 National Trust Building
 20 King Street East Toronto
 Specialties—Water Supply and Sewerage.

THE IMPERIAL PORTLAND CEMENT CO.
 LIMITED
 OWEN SOUND, ONT.
 The Only Makers of the Celebrated IMPERIAL and the Makers of ONLY that One Brand and Quality of
PORTLAND CEMENT

Portland Cement...
 HIGH GRADE GERMAN BRANDS FOR GRANOLITHIC AND ARTIFICIAL STONE SIDEWALKS.
Sewer Pipes, Best English Cements. Best Belgian Cements
Culvert Pipes, &c. W. McNALLY & CO., Montreal

Be up-to-date
 Be independent. Do not ask a friend to go on your bond. Write to
The United States Fidelity & Guaranty Co.
 A. E. KIRKPATRICK, Manager for Canada.
 6 COLBORNE STREET, - TORONTO, ONT.

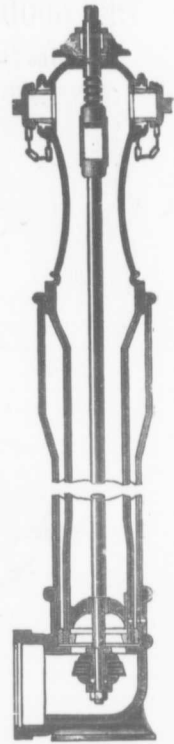
PORTLAND CEMENT
SEWER PIPES
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 50 Bleury Street, MONTREAL



Frost Proof Hydrants

Our Toronto Hydrants are fitted with frost cases separated from the Hydrant, thereby preventing injury caused by upheavals of the ground by frost



Waterworks Supplies
OF EVERY DESCRIPTION

**Pumps for Boiler Feeding,
Hydraulic Elevators and all
duties requiring the delivery of
liquids under heavy pressure**

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LIMITED**

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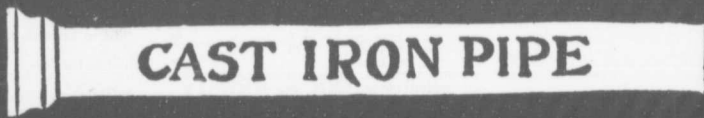
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Montreal Pipe Foundry Co., Limited

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Castings
Flange Pipe
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Hydrants
Valves



CAST IRON PIPE

Valve Boxes
and
general
Water
Works
Supplies

Works at: { LACHINE, QUE.
THREE RIVERS, QUE.
LONDONDERRY, N.S.

Combined daily capacity:
175 Tons Pipes and Castings.

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JAMES THOMSON, President. J. G. ALLAN, Vice-President. JAMES A. THOMSON, Secretary. JOHN CARTSHORE, Treasurer.

THE CARTSHORE-THOMSON PIPE & FOUNDRY CO. LIMITED.

Manufacturers of

Flexible and Flange Pipe,
Special Castings and all kinds of
Waterworks Supplies



CAST IRON PIPE

3 inches to 60 inches diameter.

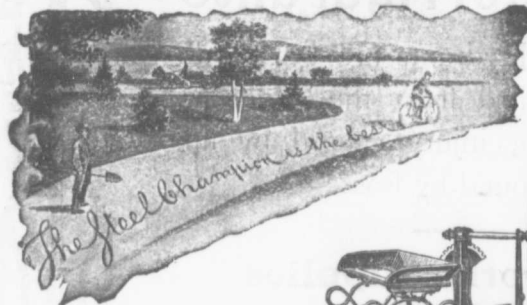
For Water, Gas, Culvert and Sewer

HAMILTON, ONT

THE GOOD ROADS MACHINERY COMPANY, LIMITED, Hamilton, Canada

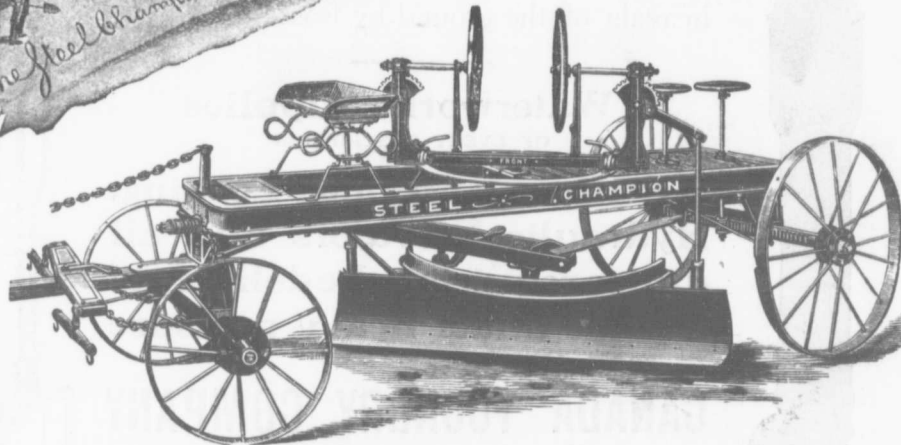
The Steel "CHAMPION" Reversible Road Machine

The Simplest, Strongest and Best. Don't it look it?
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Rock Crushers, Elevators, Revolving Screens,
Street Mud Cleaners, Sweepers, Road Graders,
Road Rollers, Macadam Spreading Wagons,
Road Plows, Portable or Stationary Engines,
Wheel and Drag Scrapers, Etc.



The Steel "CHAMPION" is the King of Graders.

All mechanics agree that the simpler the machine the more valuable it is. In complicated machines look out for trouble and expense

Send for latest printed matter and our 1905 Calendar to

Good Roads Machinery Company, Limited, JOHN CHALLEN,
President and General Manager.

Address—Late Kiley Beckett Works, 144 York Street, HAMILTON, ONT.

Prices of Building Material

(Continued from page 12.)

TORONTO PRESSED BRICK AND TERRA COTTA WORKS		F.O.B. Milton, Ont.	F.O.B. Montreal.
Red No. 1	.....	12 50	18 00
" 2	.....	10 50	16 00
" 3	.....	8 50	14 00
Buff No. 1	.....	15 00	20 00
" 2	.....	13 00	18 50
Brown	.....	20 00	25 50
Roman Red	.....	30 00	30 50
" Buff	.....	30 00	33 50
" Brown	.....	35 00	40 50
Hard Building	.....	5 50	12 00
" Sewers	.....	6 50	12 00
" Backing	.....	6 00	11 50
Moulded and Ornamental from \$2.00 to \$5.00 per 100	.....	
Terra Cotta String Courses and Friezes, from soc. to \$2.00 per ft. run.	.....	
Roofing Tiles, \$20.00 per 1,000, \$23.00 Montreal.	.....	
BEANSVILLE BRICK AND TERRA COTTA CO.		F.O.B. Beamsville, Montreal.	F.O.B. Montreal.
Red Peerless Facing	.....	\$16 00	\$21 50
" No. 1	.....	14 00	19 50
" No. 2	.....	12 00	17 50
" No. 3	.....	10 50	15 00
Brown Peerless Facing	.....	20 00	25 50
" No. 1	.....	18 00	23 50
Buff Peerless	.....	20 00	25 50
" No. 1	.....	18 00	23 50
" No. 2	.....	15 00	20 50
Moulded and Ornamental Brick from \$3 to \$10 per C.	.....	
Roman Red (Size 12 x 4 x 1 1/2 in.)	.....	30 00	35 50
" Buff	.....	30 00	35 50
" Brown	.....	34 00	39 50
Vitrified Paving Brick No. 1	.....	18 00	23 50
" No. 2	.....	18 00	20 50
Sewer	.....	8 00	3 50
Roofing Tile	.....	22 00	30 00
FIRE BRICK		F.O.B. Toronto	F.O.B. Montreal
TORONTO POTTERY CO.		Car lots	Less
Boyd	.....	20 00 M.	25 00 M.
W. W. Co.	.....	22 50 M.	27 50 M.
Savage Crown	.....	32 50 M.	38 00 M.
Ramsay	.....	30 00 M.	35 00 M.
STONE		Toronto	Montreal
Common Rubble per ton, delivered at building	.....	13 50	11 00
Large flint Rubble, per 100, delivered	.....	14 00	18 00
Foundation Blocks, per c. ft.	.....	4 1	5 0
Granite (Stanstead) Ashlar, 6 in. to 12 in., rise 9 in., per ft.	.....		25
Ambest Red Sandstone at quarry	.....		40
Ambest N.S., per cub. ft.	.....		45
Sackville N.B., brown or red stone f.o.b. Quarries	.....	45	50
Masilton	.....	45	50
Myers-Northport Red or River	.....	

	Toronto.	Montreal.
Philip Gray Sandstones f.o.b. per cubic foot	75	65
Stanstead granite paving blocks, 8 in. 10 12 in. x 6 in. x 1 1/2 in. per M.	50 00	
Granite curbing stone, 6 x 7 1/2 in. per lineal foot		70
Butoche Olive Freestone	85	65
Olive Sandstone (Indian-town, N. B.)	80	70
Brown Sandstone (Sackville, N. B.)	80	70
Moat red sandstone, per cu. ft.		60
Black Pasture buff stone per cu. ft.		50
Nova Scotia blue grey, per cu. ft.		65
Coursers, 6 to 8 in. f. o. b. St. Mary's, per cord	7 00	15
Footing, 6 to 10 in. per cubic ft.		15
Dimension Stone, f. o. b. St. Mary's, per cubic foot	35	
Granite (Laurentian Pink) Ashlar, 6 to 12 in., rise 9 in., per c. ft.	25	
Dimension Stock Granite, (Laurentian Pink) for building purposes, per c. ft., f. o. b. quarries	40	
Do., for polishing purposes, up to 2 tons weight, per cubic foot	70	
Dimension stock granite for building purposes, per cu. ft.		50
Do., for polishing purposes, up to 2 tons weight, per cubic ft.	1 00	
Paving sets, per thousand block	60 00	
CREDIT VALLEY STONE.		
	F.O.B. Halifax	F.O.B. Quarries.
Rubble, per ton		65
Brown Coursing, up to 10 per sup. yard		85
Brown dimension, per cub.		1 25
Grey coursing, per sup. yard		50
Grey dimension, per cub. ft.		50
ROMAN STONE. F. O. B. Factory.		
Sills, tooled scotched and throated 1/2 in. per lineal foot		40
Hollow Block, 12-inch wall, per superficial foot		40
Window Heads and Ashlar, per superficial foot, 4-inch bed		40
String Courses, Molded and Ornamental, per lineal foot, soc. to	2 00	
Chimney Caps, \$2 to	5 00	
SLATE. Toronto. Montreal.		
Roofing (W square).	30 00	30 00
" purple	9 00	10 00
" unslating green	10 00	11 00
" black	9 00	9 00
Terra Cotta Tile, per sq.	25 00	25 00
Ornamental Black Slate Roofing	77 50	

PORTLAND CEMENT

(CARLOADS.)

	Toronto.	Montreal
Canadian (Packages, 350 lbs. net.) :		
Rathbun's Star	1 70	2 00
Trowel	1 85	1 95
Samson	1 75	1 85
Magnat	1 85	1 65
Monarch	1 80	1 90
Hercules	1 75	1 75
Imperial		1 80
Crescent 375 lbs. gross	2 20	2 40
Diamond 350	2 20	2 30
" Giant" Brantford	1 75	2 00
American (in Bags) :		
"Helderberg"		1 90
Alsen		2 25
Lehigh, in bbls., 375 lbs. cotton sacks, 350 net	2 35	2 10
" paper bags	2 00	2 00
" Iron Clad" in bags 350 lbs.	2 10	1 85
"Invicta"		1 80
"Adirondack"		1 65
Vulcanite (The Toronto Pottery Co., Limited. Toronto) 350 lbs. per bbl.		1 80
In paper bags		2 00
" wooden bbls.		2 10
" cotton bags		2 10
English in Barrels :		
Brook's Shoobridge Ant hor	2 35	2 40
Belgian (in Barrels) :		
" Josson"	2 60	2 70
"North's Condor	2 05	2 10
"White Cross"	1 90	2 00
Hammer	1 75	1 80
White Star	2 15	2 25
Samson		1 80
German (in Barrels) :		
Offenbacher	2 65	2 95
Alsen	2 65	2 95
Dyckerhoff	2 65	2 75
Hercules	2 15	2 35
Keece's Superfine "Whites"	2 00	2 20
Keece's Carse "Whites"	6 50	7 00
Five Bricks, Newcastle, per M	27 00	33 00
North	26 00	33 00
Plaster Calcined, N.B.	1 70	1 60